

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 to 9 (canceled).

Claim 10 (original): A projection illumination system comprising:

a solid state light source unit emitting at least one light beam; and

a reflecting mirror unit for scanning the light beam over an image to illuminate the image.

Claim 11 (original): The system of claim 10, wherein the solid state light source unit comprises at least one solid state light source selected from the group consisting of semiconductor edge emitting laser diodes (LD), vertical cavity surface emitting laser diodes (VCSEL), diode pumped solid state frequency doubled (DPSSFD) lasers, and light emitting diodes (LED) for desired color.

Claim 12 (original): The system of claim 10, wherein the reflecting mirror unit is selected from the group consisting of:

a bi-directional micro-electro-mechanical system (MEMS) scanning mirror;

a first MEMS scanning mirror rotating about a horizontal axis and a second MEMS scanning mirror rotating about a vertical axis; and

at least one galvanometer mirror manufactured by mechanical processes.

Claim 13 (original): The system of claim 10, wherein the image is on a medium selected from the group consisting of a wall, a screen, a sign, and a billboard.

Claim 14 (original): The system of claim 10, wherein the image comprises a semi-transparent material so the image can be viewed on both sides.

Claim 15 (original): The system of claim 10, wherein the image is a semi-transparent image and the image is projected onto a medium to create a larger image.

Claim 16 (original): The system of claim 10, further comprising:

a second solid state light source unit emitting at least a second light beam;

a second reflecting mirror unit for scanning the second light beam over the image to illuminate the image;

wherein the reflecting mirror unit illuminates a first portion of the image while the second reflecting mirror unit illuminates a second portion of the image.

Claim 17 (original): The system of claim 16, wherein the projection illumination system comprises one of an overhead projector, an LCD projector, and a slide machine.

Claim 18 (original): The system of claim 10, further comprising:

a light-valve device;

wherein the light beam scans over the light-valve device to project the image modulated by the light-valve device.

Claim 19 (original): The system of claim 18, wherein the light-valve device is selected from the group consisting of a liquid crystal display (LCD) device, a liquid crystal on silicon (LCoS) device, and a digital micromirror device (DMD).

Claim 20 (original): A light source, comprising:

a light source emitting a light beam; and

a reflecting mirror system for raster scanning the light beam over an area to be illuminated.

Claim 21 (original): The light source of claim 20, wherein the light source and the reflecting mirror are powered by a battery.

Claim 22 (original): The light source of claim 20, wherein the light source comprises at least one laser diode selected from the group consisting of a semiconductor edge emitting laser diodes (LD), a vertical cavity surface emitting laser diodes (VCSEL), and a light emitting diodes (LED).

Claim 23 (original): The light source of claim 20, wherein the reflecting mirror system is selected from the group consisting of:

a bidirectional MEMS scanning mirror;

a first MEMS scanning mirror rotating about a horizontal axis and a second MEMS scanning mirror rotating about a vertical axis; and

at least one galvanometer mirror manufactured by mechanical processes.

Claim 24 (original): The light source of claim 20, wherein the light source generates an infrared light beam.

Claim 25 (original): A method for illuminating an area, comprising:

generating a light beam; and

raster scanning the light beam over the area to illuminate the area.

Claim 26 (original): The method of claim 25, further comprising powering a light source that generates the light beam and a reflecting mirror system that raster scans the light beam with a battery.

Claim 27 (original): The method of claim 25, wherein said scanning the light beam over the area is a step selected from the group consisting of:

rotating a bidirectional MEMS scanning mirror along two axes to scan the light beam;

rotating a first MEMS scanning mirror along a horizontal axis and rotating a second MEMS scanning mirror along a vertical axis to scan the light beam;
and

rotating at least one galvanometer mirror manufactured by mechanical processes.

Claim 28 (original): The method of claim 25, wherein the light beam is an infrared light beam.